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### 1 [Tracking menus](#)

[George Fitzmaurice, Azam Khan, Robert Pieké, Bill Buxton, Gordon Kurtenbach](#)  
 November 2003 **UI ST '03: Proceedings of the 16th annual ACM symposium on Use and technology**

**Publisher:** ACM

Full text available: [Mov \(1:37 MIN\)](#), [Pdf \(2.06 MB\)](#), [Wmv \(1:37 MIN\)](#) [Additional Information](#)

**Bibliometrics:** Downloads (6 Weeks): 54, Downloads (12 Months): 257, Citation Count

We describe a new type of graphical user interface widget, known as a "tracking menu consists of a cluster of graphical buttons, and as with traditional menus, moved within the menu to select and interact with items. ...

**Keywords:** floating palette, graphical user interface, menu system, pen based tablet PC

### 2 [The ToolFinger: supporting complex direct manipulation in virtual environments](#)

[Gerold Wesche](#)  
 May 2003 **EGVE '03: Proceedings of the workshop on Virtual environments 2003**  
**Publisher:** ACM

Full text available: [Pdf \(777.37 KB\)](#) [Additional Information: full citation, abstract, references,](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 28, Citation Count: 2

Virtual environments (VEs) such as the Responsive Workbench were designed to support complex applications. The possibility of direct manual interaction with virtual objects in a natural, intuitive way is one of the great ...

**Keywords:** Responsive Workbench, application control, immersive modelling, interaction, selection, virtual environments

### 3 [SpeechSkimmer: a system for interactively skimming recorded speech](#)

[Barry Arons](#)  
 March 1997 **Transactions on Computer-Human Interaction (TOCHI)**, Volume 4  
**Publisher:** ACM

Full text available: [Pdf \(1.03 MB\)](#) [Additional Information: full citation, abstract, references, review](#)

**Bibliometrics:** Downloads (6 Weeks): 23, Downloads (12 Months): 120, Citation Count

Listening to a speech recording is much more difficult than visually scanning a document because of the transient and temporal nature of audio. Audio recordings capture the richness of speech, but it is difficult to directly browse the stored information. ...

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**Keywords:** audio browsing, interactive listening, nonspeech audio, speech as a task, speech recognition, speech skimming, speech user interfaces, time compression

#### 4 [Improving menu placement strategies for pen input](#)

[Mark S. Hancock](#), [Kellogg S. Booth](#)

May 2004 **GI '04:** Proceedings of Graphics Interface 2004

**Publisher:** Canadian Human-Computer Communications Society


Full text available:  [Pdf](#) (331.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#),

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 48, Citation Count: 1

We investigate menu selection in circular and rectangular pop-up menus using direct input on horizontal and vertical display surfaces. An experiment measured performance on a menu acquisition task in three different conditions: direct ...

**Keywords:** direct input, handedness, horizontal display, indirect input, pen-in-pen display, vertical display

#### 5 [Two-handed interaction on a tablet display](#)

 [Ka-Ping Yee](#)

April 2004 **CHI '04:** CHI '04 extended abstracts on Human factors in computing systems

**Publisher:** ACM


Full text available:  [Pdf](#) (655.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#),

**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 104, Citation Count: 1

A touchscreen can be overlaid on a tablet computer to support asymmetric two-handed interaction in which the preferred hand uses a stylus and the non-preferred hand operates the touchscreen. The result is a portable device that allows both hands to interact ...

**Keywords:** asymmetric bimanual interaction, commodity hardware, tablet computer, touch-sensitive screens

#### 6 [TiltType: accelerometer-supported text entry for very small devices](#)

 [Kurt Partridge](#), [Saurav Chatterjee](#), [Vibha Sazawal](#), [Gaetano Borriello](#), [Roy Want](#)

October 2002 **UIST '02:** Proceedings of the 15th annual ACM symposium on User interface software and technology

**Publisher:** ACM

Additional Information:

Full text available:  [Mov](#) (119.00 bytes),  [Pdf](#) (304.32 KB),  [Wmv](#) (119.00 bytes)



**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 104, Citation Count: 1

TiltType is a novel text entry technique for mobile devices. To enter a character, the user tilts the device and presses one or more buttons. The character chosen depends on the direction of tilt, and the angle of tilt. TiltType consumes ...





**Keywords:** accelerometer applications, input/output devices, interaction techniques, text entry, wearable computing, wristwatch computers

#### 7 [FlowMenu: combining command, text, and data entry](#)

[François Guimbretière](#), [Terry Winograd](#)

-  November 2000 **UI ST '00**: Proceedings of the 13th annual ACM symposium on Use and technology  
**Publisher:** ACM  
Full text available:  Pdf (57.65 KB) Additional Information: [full citation](#), [references](#), [cited by](#),  
**Bibliometrics:** Downloads (6 Weeks): 17, Downloads (12 Months): 143, Citation Count
- Keywords:** Quikwriting, control menu, interactive surface, marking menu



8 [Perceptually-supported image editing of text and graphics](#)

-  Eric Saund, David Fleet, Daniel Lerner, James Mahoney  
November 2003 **UI ST '03**: Proceedings of the 16th annual ACM symposium on Use and technology  
**Publisher:** ACM  
Full text available:  Mov (3:16 MIN),  Pdf (1.42 MB),  Wmv (3:16 MIN) Additional Information:  
**Bibliometrics:** Downloads (6 Weeks): 49, Downloads (12 Months): 140, Citation Count

This paper presents a novel image editing program emphasizing easy selection material found in informal, casual documents such as sketches, handwritten no images, screen snapshots, and scanned documents. The program, ...

**Keywords:** WYPIWYG, bitmap image, foreground/background, lattice grouping document editing, rough document, scanscribe



9 [Performance of menu-augmented soft keyboards](#)

-  Poika Isokoski  
April 2004 **CHI '04**: Proceedings of the SIGCHI conference on Human factors in c  
**Publisher:** ACM  
Full text available:  Pdf (1.01 MB) Additional Information: [full citation](#), [abstract](#), [references](#),  
**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 80, Citation Count: 3

We report results on the performance of the combination of soft keyboards and model of expert user performance indicated an 11 - 37% (depending on the ke improvement in text entry rate over the same keyboard without the ...

**Keywords:** Fitts' law, marking menu, soft keyboard, text entry

10 [Avoiding interference: how people use spatial separation and partitioning in](#)

-  Edward Tse, Jonathan Hison, Stacey D. Scott, Saul Greenberg  
November 2004 **CSCW '04**: Proceedings of the 2004 ACM conference on Computer cooperative work  
**Publisher:** ACM  
Full text available:  Pdf (631.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#),  
**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 71, Citation Count: 7

Single Display Groupware (SDG) lets multiple co-located people, each with thei interact simultaneously over a single communal display. While SDG is beneficia <i>interference</i>: when two people are interacting ...

**Keywords:** co-located collaboration, single display groupware (SDG)

### CrossY: a crossing-based drawing application

Georg Apitz, François Guimbretière

October 2004 **UIST '04**: Proceedings of the 17th annual ACM symposium on User interface and technology

**Publisher:** ACM

Full text available:  Pdf (1.64 MB)


Additional Information: [full citation](#), [abstract](#), [references](#).

**Bibliometrics:** Downloads (6 Weeks): 65, Downloads (12 Months): 178, Citation Count

We introduce CrossY, a simple drawing application developed as a benchmark to test the feasibility of goal crossing as the basis for a graphical user interface. We show that it is only as expressive as the current point-and-click interface, ...


**Keywords:** command composition, crossing based interfaces, fluid interaction,

### 12 Sharing and building digital group histories

 Chia Shen, Neal B. Lesh, Frederic Vernier, Clifton Forlines, Jeana Frost

November 2002 **CSCW '02**: Proceedings of the 2002 ACM conference on Computer supported cooperative work

**Publisher:** ACM

Full text available:  Pdf (7.06 MB)


Additional Information: [full citation](#), [abstract](#), [references](#).

**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 133, Citation Count

Organizations, families, institutions evolve a shared culture and history. In this system to facilitate conversation and storytelling about this collective past. Use archives of shared materials such as photographs, ...

**Keywords:** digital story sharing, group history, single-display groupware

### 13 Digital annotation of printed documents

 Corsin Decurtins, Moira C. Norrie, Beat Signer

November 2003 **CIKM '03**: Proceedings of the twelfth international conference on Information knowledge management

**Publisher:** ACM

Full text available:  Pdf (281.67 KB)


Additional Information: [full citation](#), [abstract](#), [references](#).

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 37, Citation Count: 5

We present a general model and information server for the digital annotation of documents. The resulting annotation framework supports both informal and structured annotation and context-dependent services. A demonstrator application ...

**Keywords:** augmented paper, cross-media annotation, mammography

### 14 Shorthand writing on stylus keyboard

 Shumin Zhai, Per-Ola Kristensson

April 2003 **CHI '03**: Proceedings of the SIGCHI conference on Human factors in computing systems

**Publisher:** ACM

Full text available:  Pdf (275.25 KB)


Additional Information: [full citation](#), [abstract](#), [references](#).

**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 113, Citation Count

We propose a method for computer-based speed writing, SHARK (shorthand air keyboarding), which augments stylus keyboarding with shorthand gesturing. SHARK uses a shorthand symbol for each word according to its movement pattern on an optical sensor.

**Keywords:** handheld devices, mobile, pervasive computing, text input, text-er

## 15 Reflowing digital ink annotations

 [David Bargerion, Tomer Moscovich](#)

April 2003 **CHI '03: Proceedings of the SIGCHI conference on Human factors in c**

**Publisher:** ACM

Full text available:  Pdf (738.55 KB)

Additional Information: [full citation](#), [abstract](#), [references](#),

**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 95, Citation Count:

Annotating paper documents with a pen is a familiar and indispensable activity of work and educational settings. Recent developments in pen-based computing this experience to digital documents. However, digital ...

**Keywords:** annotation, annotation system design, context, digital ink, document recognition, reflow

## 16 Students' experiences with PDAs for reading course materials

[J. Waycott, A. Kukulski-Hulme](#)

May 2003 **Personal and Ubiquitous Computing**, Volume 7 Issue 1

**Publisher:** Springer-Verlag

Full text available:  Pdf (470.11 KB)

Additional Information: [full citation](#), [abstract](#), [references](#),



**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 121, Citation Count

The availability of text reading and editing software for Personal Digital Assistants is timely to consider whether PDAs are useful tools for reading learning materials. This study evaluated the use of PDAs for ...

**Keywords:** Evaluation, Handheld computer, Learning, PDA, Palmtop, Reading

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